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INFORMATION DISCLOSURE
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Sheet	1	of	6	Attorney Docket No.	UNL 2999.1
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
RLS	1	4,341,761		Ganfield et al.	07-27-1982
RLS	2	4,399,121		Albarella et al.	08-16-1983
RLS	3	4,427,783		Newman et al.	01-24-1984
RLS	4	4,444,887		Hoffmann	04-24-1984
RLS	5	4,466,917		Nussenzweig et al.	08-21-1984
RLS	6	4,472,500		Milstein et al.	09-18-1984
RLS	7	4,491,632		Wands et al.	01-01-1985
RLS	8	4,493,890		Morris	01-15-1985
RLS	9	4,683,195		Mullis et al.	07-28-1987
RLS	10	4,683,202		Mullis	07-28-1987
RLS	11	4,800,159		Mullis et al.	01-24-1989
RLS	12	4,965,188		Mullis et al.	10-23-1990
RLS	13	5,783,386		Jacobs, Jr. et al.	07-21-1998
RLS	14	6,095,549		Pelicic et al.	08-01-2000

Examiner Signature	R. Barletta	Date Considered	4-10-02
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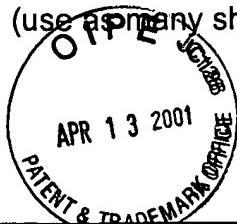
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First Named Inventor	Raul G. Barletta et al.
Group Art Unit	1645
Examiner Name	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
MG	15	BALASUBRAMANIAN et al., Allelic Exchange in <i>Mycobacterium tuberculosis</i> with Long Linear Recombination Substrates, <i>J. Bacter.</i> , Jan. 1996, pp. 273-79, Vol. 178, No. 1, Amer. Soc. Microb., USA	
MG	16	BARDAROV et al., Conditionally replicating mycobacteriophages: A system for transposon delivery to <i>Mycobacterium tuberculosis</i> , <i>Proc. Natl. Acad. Sci.</i> , Sep. 1997, pp. 10961-66, Vol. 94, Natl. Acad. Sci., USA	
MG	17	BEAUCAGE et al., Deoxynucleoside Phosphoramidites-A New Class Of Key Intermediates For Deoxypolycucleotide Synthesis, <i>Tet. Let.</i> , 1981, pp. 1859-62, Vol. 22, No. 20	
MG	18	BERMUDEZ et al., Isolation of two subpopulations of <i>Mycobacterium avium</i> within human microphages, <i>FEMS Micro. Let.</i> , 1999, p. 19-26, Vol. 178, Elsevier Sciences	
MG	19	CÁCERES et al., Overexpression of the D-Alanine Racemase Gene Confers Resistance to D-Cycloserine in <i>Mycobacterium smegmatis</i> , <i>J. Bacter.</i> , Aug. 1997, pp. 5046-55, Vol. 179, No. 16, Amer. Soc. Microb., USA	
MG	20	CAMPHAUSEN et al., A glycolipid antigen specific to <i>Mycobacterium paratuberculosis</i> : Structure and antigenicity, <i>Proc. Natl. Acad. Sci.</i> , May 1985, pp. 3068-72, Vol. 82	
MG	21	CAVAIGNAC et al., Construction and screening of <i>Mycobacterium paratuberculosis</i> insertional mutant libraries, <i>Arch. Microbiol.</i> , 2000, pp. 229-31, Vol. 173	
MG	22	CIRILLO et al., A Novel Transposon Trap for Mycobacteria: Isolation and Characterization of IS1096, <i>J. Bacter.</i> , Dec. 1991, pp. 7772-80, Vol. 173, Amer. Soc. Microb., USA	
MG	23	CIRILLO et al., Interaction of <i>Mycobacterium avium</i> with Environmental Amoebae Enhances Virulence, <i>Infec. and Immun.</i> , Sep. 1997, pp. 3759-67, Vol. 65, No. 9, Amer. Soc. Microb., USA	

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Sheet	3	of	6	Attorney Docket No.	UNL 2999.1
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ML	24	COCITO et al., Paratuberculosis, <i>Clin. Microb. Reviews</i> , Jul. 1994, pp. 328-45, Vol. 7, No. 3, Amer. Soc. Microb., USA	
ML	25	COLLINS, Paratuberculosis diagnostics: We created the tests, now how do we use them?, <i>Proc. Fifth Intl. Colloq. Paratuberculosis</i> , Chiodini et al., eds., Intl. Assoc. for Paratuberculosis, 1997, pp. 232-41	
ML	26	COLLINS et al., Herd prevalence and geographic distribution of, and risk factors for, bovine paratuberculosis in Wisconsin, <i>J. Amer. Vet. Med. Assoc.</i> , Feb. 1994, pp. 636-41, Vol. 204, No. 4	
ML	27	ELLINGSON et al., Identification of a gene unique to <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> and application to diagnosis of paratuberculosis, <i>Mol. Cell. Probes</i> , 1998, pp. 133-42, Vol. 12, Academic Press, USA	
ML	28	EL-ZAATARI et al., Characterization of a Specific <i>Mycobacterium paratuberculosis</i> Recombinant Clone Expressing 35,000-Molecular-Weight Antigen and Reactivity with Sera from Animals with Clinical and Subclinical Johne's Disease, <i>J. Clin. Microb.</i> , Jul. 1997, pp. 1794-99, Vol. 35, No. 7, Amer. Soc. Microb., USA	
ML	29	FOLEY-THOMAS et al., Phage infection, transfection and transformation of <i>Mycobacterium avium</i> complex and <i>Mycobacterium paratuberculosis</i> , 1995, pp. 1173-81, Vol. 141	
ML	30	GREEN et al., Sequence and characteristics of IS900, an insertion element identified in a human Crohn's disease Isolate of <i>Mycobacterium paratuberculosis</i> , <i>Nucl. Acids. Res.</i> , 1989, pp. 9063-73, Vol. 17, No. 22, IRL Press	
ML	31	GUATELI et al., Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication, <i>Proc. Natl. Acad. Sci.</i> , Mar. 1990, pp. 1874-78, Vol. 87, Biochem., USA	
ML	32	GUILHOT et al., Efficient Transposition in Mycobacteria: Construction of <i>Mycobacterium smegmatis</i> Insertional Mutant Libraries, Jan. 1994, pp. 535-39, Vol. 176, No. 2, Amer. Soc. Microb., USA	
ML	33	GUNNARSSON et al., Analysis of Antigens in <i>Mycobacterium Paratuberculosis</i> , <i>Acta. Vet. Scand.</i> , 1979, pp. 201-15, Vol. 20	
ML	34	HAMILTON et al., <i>Mycobacterium paratuberculosis</i> Monoassociated Nude Mice as a Paratuberculosis Model, <i>Vet. Pathol.</i> , 1991, pp. 146-55, No. 28	

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<i>RP</i>	35	HOMUTH et al., Identification and Characterization of a Novel Extracellular Ferric Reductase from <i>Mycobacterium paratuberculosis</i> , <i>Inf. & Immun.</i> , Feb. 1998, pp. 710-16, Vol. 66, No. 2, Amer. Soc. Microb., USA	
<i>RP</i>	36	HSEIH et al., Two-dimensional electrophoretic analysis of <i>Mycobacterium avium</i> and <i>M. paratuberculosis</i> iron-regulated proteins, <i>Proc. Fifth Intl. Paratuberculosis</i> , pp. 82-87	
<i>RP</i>	37	JACOBS, JR. et al., Genetic Systems for Mycobacteria, <i>Meth. Enzy.</i> , 1991, pp. 537-55, Vol. 204, Academic Press, USA	
<i>RP</i>	38	KWOH et al., Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format, <i>Proc. Natl. Acad. Sci.</i> , Feb. 1989, pp. 1173-77, Vol. 86, Biochem., USA	
<i>RP</i>	39	LANDEGREN et al., A Ligase-Mediated Gene Detection Technique, <i>Science</i> , Aug. 1988, pp. 1077-80, Vol. 241	
<i>RP</i>	40	MARTIN et al., Transposition of an antibiotic resistance element in mycobacteria, <i>Nature</i> , Jun. 1990, pp. 739-43, Vol. 345	
<i>RP</i>	41	MCADAM et al., In Vivo Growth Characteristics of Leucine and Methionine Auxotrophic Mutants of <i>Mycobacterium bovis</i> BCG Generated by Transposon Mutagenesis, <i>Inf. and Immun.</i> , Mar. 1995, pp. 1004-12, Vol. 63, No. 3, Amer. Soc. Microb., USA	
<i>RP</i>	42	MUTHARIA et al., Analysis of Culture Filtrate and Cell Wall-Associated Antigens of <i>Mycobacterium paratuberculosis</i> with Monoclonal Antibodies, <i>Inf. and Immun.</i> , Feb. 1997, pp. 387-94, Vol. 65, No. 2, Amer. Soc. Microb., USA	
<i>RP</i>	43	PELICIC et al., Efficient allelic exchange and transposon mutagenesis in <i>Mycobacterium tuberculosis</i> , <i>Proc. Natl. Acad. Sci.</i> , Sep. 1997, pp. 10955-60, Vol. 94	
<i>RP</i>	44	PELICIC et al., Genetic advances for studying <i>Mycobacterium tuberculosis</i> pathogenicity, <i>Mol. Microb.</i> , 1998, pp. 413-20, Vol. 28, No. 3	
<i>RP</i>	45	SHAPIRO-HURLEY et al., Deoxyribonucleic Acid Relatedness of <i>Mycobacterium paratuberculosis</i> to Other Members of the Family <i>Mycobacteriaceae</i> , <i>Intl. J. Syst. Bacteriol.</i> , Apr. 1988, pp. 143-46, Vol. 38, No. 2, Intl. Union Microb. Soc.	

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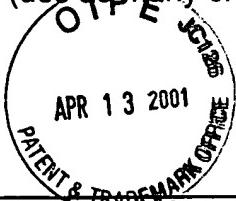
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46	ST-JEAN et al., Treatment of <i>Mycobacterium Paratuberculosis</i> Infection in Ruminants, <i>Vet. Clin. N. Am. Food Anim. Prac.</i> , Nov. 1991, pp. 793-805, Vol. 7, No. 3
47	ST-JEAN, Treatment Of Clinical Paratuberculosis In Cattle, <i>Vet. Clin. N. Am. Food Anim. Prod.</i> , Jul. 1996, pp. 417-30, Vol. 12, No. 2
48	STABEL, An improved method for cultivation of <i>Mycobacterium paratuberculosis</i> from bovine fecal samples and comparison to three other methods, <i>J. Vet. Diagn. Invest.</i> , 1997, pp. 375-80, Vol. 9
49	STEVENSON, The Contribution of Molecular Biology to <i>Mycobacterium avium</i> Subspecies <i>Paratuberculosis</i> Research, <i>Vet. Jour.</i> , 1997, pp. 269-86, Vol. 153
50	SUGDEN et al., Chromatographic Purification and Characterization of Antigens A and D from <i>Mycobacterium paratuberculosis</i> and Their Use in Enzyme-Linked Immunosorbent Assays for Diagnosis of Paratuberculosis in Sheep, <i>Jour. Clin. Microb.</i> , Aug. 1991, pp. 1659-64, Vol. 29, No. 8, Amer. Soc. Microb., USA
51	THOREL et al., Numerical Taxonomy of Mycobactin-Dependent Mycobacteria. Amended Description of <i>Mycobacterium avium</i> , and Description of <i>Mycobacterium avium</i> subsp. <i>avium</i> subsp. nov., <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> subsp. nov., and <i>Mycobacterium avium</i> subsp. <i>silvaticum</i> subsp. nov., <i>Int. J. System. Bacteriol.</i> , Jul. 1990, pp. 254-60, Vol. 40, No. 3, Inter. Union Microb. Soc.
52	VAN SCHAIK et al., Cost-benefit analysis of vaccination against paratuberculosis in dairy cattle, <i>Vet. Rec.</i> , Dec. 1996, pp. 624-27, Vol. 139
53	WHIPPLE et al., Development of the beige mouse as an animal model for <i>M. paratuberculosis</i> infection, <i>Proc. 3rd Intl. Colloq. Paratuberculosis</i> , pp. 551-52
54	WHITE et al., Comparison of cellular and extracellular proteins expressed by various isolates of <i>Mycobacterium paratuberculosis</i> and other mycobacterial species, <i>Am. J. Vet. Res.</i> , Oct. 1994, pp. 1399-1405, Vol. 55, No. 10
55	WILLIAMS et al., Development of a Firefly Luciferase-Based Assay for Determining Antimicrobial Susceptibility of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> , <i>J. Clin. Microb.</i> , Feb. 1999, pp. 304-09, Vol. 37, No. 2, Amer. Soc. Microb., USA

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Sheet **6** of **6** Attorney Docket No. **UNL 2999.1**

<i>MW</i>	56	WU et al., The Ligation Amplification Reaction (LAR)-Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation, <i>Genomics</i> , 1989, pp. 560-69, Vol. 4	
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